

## HIGH AVAILABILITY DATA REPLICATION OF AN R-TREE INDEX

### Abstract of the Disclosure

In a database system having a primary server side (10) and a secondary server side (30), a high availability data replicator (26, 46) transfers log entries from the primary side (10) to the secondary side (30) and replays the transferred log entries to  
5   primary side (10) to the secondary side (30) and replays the transferred log entries to  
synchronize the secondary side (30) with the primary side (10). R-tree index transfer  
threads (54, 56) copy user-defined routines, the user defined index, and index databases  
deployed on the primary server side (10) to the secondary server side (30) and deploy the  
copied user-defined routines, reconstruct the user-defined index, and copy data pages on  
10   the secondary side (30) to make the user-defined index consistent and usable on the  
secondary side (30).